

## PATENT ABSTRACTS OF JAPAN

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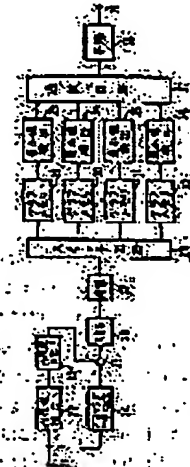
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## (54) SMOOTHING CIRCUIT OF MOTION VECTOR

## (57)Abstract:

**PURPOSE:** To decrease discontinuity in the time base direction of a motion vector and to improve a visual characteristic when the motion is corrected by using a strong correlation in the time base direction of the motion vector and executing the smoothing processing.

**CONSTITUTION:** A digital TV signal from the terminal 21 is supplied to a representative point extracting circuit 22 and a block data extracting circuit 24. An absolute value of the frame difference data from a converting circuit 26 is supplied to an integrating circuit 27, the integrating value of the frame difference data is supplied to a switch circuit 28 and distributed to graph memories 29~32 for an area each by the circuit 28. Frame difference integrating data stored in the memories 29~32 respectively are supplied respectively to minimum value detecting circuits 33~36. The motion vector from the circuits 33~36 respectively are supplied to a selecting circuit 37. The motion vector for one field unit from the circuit 37 is supplied to a smoothing circuit 37, the noise is removed, the discontinuity in the time base direction is decreased and removed to an output terminal 39.



## LEGAL STATUS

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